IN THE CLAIMS:

Claims 1-61 (Cancelled).

- 62. (Original) A photoluminescent device comprising:
 - a) an excitation source; and
- b) at least a first layer of photoluminescent phosphor particles adapted to be stimulated by said excitation source, wherein said phosphor particles have a weight average particle size of from about 0.1 μ m to about 10 μ m, a substantially spherical morphology and wherein at least about 80 weight percent of said particles are not larger than two times said average particle size.
- 63. (Original) A photoluminescent device as recited in Claim 62, wherein said phosphor particles have an average size of from about 0.3 μ m to about 5 μ m.
- 64. (Original) A photoluminescent device as recited in Claim 62, wherein said excitation source comprises a gas and wherein said gas comprises xenon.
- 65. (Original) A photoluminescent device as recited in Claim 62, wherein said excitation source comprises a gas and wherein said gas comprises mercury.
- 66. (Original) A photoluminescent device as recited in Claim 62, wherein said particles comprise Y₂O₃:Eu.
- 67. (Original) A photoluminescent device as recited in Claim 62, wherein said particles comprise (Y,Gd)BO₃:Eu.
- 68. (Original) A photoluminescent device as recited in Claim 62, wherein said particles comprise Zn₂SiO₄:Mn.
- 69. (Original) A photoluminescent device as recited in Claim 62, wherein said particles comprise BaMgAl_XO_Y:Eu.
- 70. (Original) A photoluminescent device as recited in Claim 62, wherein said particles comprise BaAl_XO_Y.
- 71. (Original) A photoluminescent device as recited in Claim 62, wherein said particles comprise BaMgAl_XO_Y:Mn.
- 72. (Original) A photoluminescent device as recited in Claim 62, wherein said layer is a substantially uniform layer of photoluminescent phosphor particles, said layer having an average thickness of not greater than about three times said average particle size.
 - 73. (Original) A photoluminescent device as recited in Claim 62, wherein said device is

a plasma display panel.

- 74. (Original) A photoluminescent device as recited in Claim 62, wherein said device is a fluorescent lamp.
- 75. (Original) A photoluminescent device as recited in Claim 62, wherein said device is an LCD backlight.
 - 76. (Original) A plasma display panel, comprising:
 - a) a rear panel comprising a plurality of row electrodes;
 - b) a front panel comprising a plurality of column electrodes, wherein said row electrodes and said column electrodes are in perpendicular relation to form a plurality of addressable x-y coordinates;
 - c) a photoluminescent phosphor powder dispersed on a substrate disposed between said electrodes, wherein said phosphor powder comprises particles having a weight average particle size of not greater than about 5 μ m and a particle size distribution wherein at least about 80 weight percent of said particles are not larger than two times said average particle size.
- 77. (Original) A plasma display panel as recited in Claim 76, wherein said particles have a substantially spherical morphology.
- 78. (Original) A plasma display panel as recited in Claim 76, wherein said average particle size is from about 0.3 μ m to about 5 μ m.
- 79. (Original) A plasma display panel as recited in Claim 76, wherein said particles have a particle size distribution wherein at least about 90 weight percent of said particles are not larger than about two times said weight average particle size.
- 80. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor particles comprise crystallites having an average crystallite size of at least about 25 nanometers.
- 81. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder is dispersed in a substantially uniform layer having an average thickness of not greater than about three times said average particle size.
- 82. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises BaMgAl_xO_y:Eu.
- 83. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises BaMgAl_xO_y and from about 8 to about 12 atomic percent Eu and wherein said

excitation source comprises xenon gas.

- 84. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises BaAl_XO_Y:Mn.
- 85. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises BaAl_XO_Y and from about 8 to about 12 atomic percent Mn and wherein said excitation source comprises xenon gas.
- 86. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises Zn₂SiO₄:Mn.
- 87. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises Zn₂SiO₄ and from about 0.05 to about 2 atomic percent Mn and wherein said excitation source comprises xenon gas.
- 88. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises Y₂O₃:Eu.
- 89. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises Y₂O₃ and from about 4 to about 6 atomic percent Eu and wherein said excitation source comprises xenon gas.
- 90. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises (Y,Gd)BO₃:Eu.
- 91. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises (Y,Gd)BO₃ and from about 14 to about 20 atomic percent Eu and wherein said excitation source comprises xenon gas.
- 92. (Original) A plasma display panel as recited in Claim 76, wherein said phosphor powder comprises:
 - a) first phosphor particles of BaMgAl_xO_y:Eu;
 - b) second phosphor particles selected from the group consisting of Zn_2SiO_4 :Mn, $BaAl_XO_Y$:Mn and mixtures thereof; and
 - c) third phosphor particles selected from the group consisting of Y_2O_3 :Eu, $(Y,Gd)BO_3$:Eu and mixtures thereof.

Claims 93-205 (Cancelled).